**Homework 54H** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Special Right Triangles 45-45-90** Period:\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Failure to show all work and write in complete sentences will result in LaSalle.**

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| 1. Find the value of each variable. Write answers in the simplest radical form. | 1. Find the value of each variable. Write answers in the simplest radical form. |
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**Critical Thinking Problems:**

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| 1. Prove XUW is congruent to TUV, and then find the missing side lengths **r, s, a, b.**   **b**  **s**  **U**  **X**  **W**  **V**  **T**  30◦  45◦  **a**  **10**  **12**  **r**  60◦ | Proof: | |
| 1. Find the length of the diagonal of a square whose perimeter is 84 cm. | |  |